

PTO/SB/08A (07-05)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/089,025
		Filing Date	06/21/2002
		First Named Inventor	Hooley
		Art Unit	2644
		Examiner Name	Grier, Laura A
Sheet <b>1</b>	of <b>7</b>	Attorney Docket Number	KEM1.N.80540B (was 017-002)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JK		US- 3,992,586	11-16-1976	Jaffe, Christopher	
JK		US- 3,996,561	12-07-1976	Kowal et al.	
JK		US- 4,330,691	05-18-1982	Gordon, Theodore	
JK		US- 4,515,997	05-07-1985	Stinger, Jr., Walter E.	
JK		US- 4,769,848	09-06-1988	Eberback, Steven J.	
JK		US- 4,773,096	09-20-1988	Kim, Larry J.	
JK		US- 5,051,799	09-24-1991	Paul et al.	
JK		US- 4,984,273	01-08-1991	Aylward et al.	
JK		US- 5,227,591	07-13-1993	Tarkkonen, Timo	
JK		US- 5,287,531	02-15-1994	Rogers, Jr. et al.	
JK		US- 5,233,664	08-03-1993	Yanagawa et al.	
JK		US- 5,313,300	05-17-1994	Rabile, Robert J.	
JK		US- 5,313,172	05-17-1994	Vagher, Michael R.	
JK		US- 5,751,821	05-12-1998	Smith, David L.	
JK		US- 5,832,097	11-03-1998	Armstrong et al.	
JK		US- 6,373,955 B1	04-16-2002	Hooley, Anthony	
JK		US- 6,169,806 B1	01-02-2001	Kimura et al.	
JK		US- 5,963,432	10-05-1999	Crowley, Christopher Thomas	
JK		US- 5,885,129	03-23-1999	Norris, Elwood G.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
JK		DE 40 33 068 A1	04-25-1991	Goerike, Rudolf, Dr.		
JK		DE 44 28 500 A1	03-30-1995	Bartelt et al.		
JK		DE 43 43 807 A1	06-29-1995	Nubert, Guenther		
JK		EP 0 323 110 A2	07-05-1989	Nishida et al.		✓
JK		EP 0 351 055 A1	01-17-1990	Tanaka et al.		✓
JK		EP 1 026 663 A2	08-09-2000	Wildes, Douglas Glenn		✓

Examiner Signature		Date Considered	1/31/06
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/089,025
Filing Date	06/21/2002
First Named Inventor	Hooley
Art Unit	2644
Examiner Name	Grier, Laura A
Attorney Docket Number	KEM1.N.80540B (was 017-002)

Sheet 2 of 7**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JK		US- 6,243,476 B1	06-05-2001	Gardner, William G.	
JK		US- 6,005,642	12-21-1999	Meisner et al.	
JK		US- 6,122,223	09-19-2000	Hossack, John A.	
JK		US- 6,294,905 B1	09-25-2001	Schwartz, Reiner	
JK		US- 6,373,955	04-16-2002	Hooley et al.	
JK		US- 6,967,541	11-27-2005	Hooley et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
JK		FR 2,628,335	09-15-1989	Metzger		
JK		GB 2,209,229 A	05-04-1989	Tasco Limited		✓
JK		GB 2,320,351 A	06-17-1989	Ryford Limited		✓
JK		JP 61-057198	08-28-1984	Matsushita Electric Ind		✓
JK		JP 59-186498	10-23-1984	Nippon Columbia Co Ltd		✓
JK		JP 63-009300	01-14-1988	Matsushita Electric Ind		✓

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		Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
JK		JP 61-253996	11-11-1986	Matsushita Electric Ind		✓
JK		JP 63-234699	09-29-1988	Matsushita Electric Ind		✓
JK		JP 63-269699	11-07-1988	Pioneer Electronic Corp		✓
JK		JP 63-300699	12-07-1988	Pioneer Electronic Corp		✓
JK		JP 02-239798	09-21-1990	Toa Electric Co Ltd		✓
JK		JP 03-159400	07-09-1991	Mitsubishi Heavy Ind Ltd		✓

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Examiner Name	Grier, Laura A
Attorney Docket Number	KEM1.N.80540B (was 017-002)

Sheet 5 of 7

## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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			MM-DD-YYYY			
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> *(if known)				
JK		JP 05-199598	08-06-1993	Matsushita Electric Ind		✓
JK		JP 05-344584	12-24-1993	Matsushita Electric Inc		✓
JK		JP 06-062488	03-04-1994	Pioneer Electron Corp		✓
JK		JP 06-205496	07-22-1994	Pioneer Electron Corp		✓
JK		JP 06-225379	08-12-1994	Matsushita Electric Ind		✓

**Examiner  
Signature**

Date  
Considered

1/31/06

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Sheet	7	of	7
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
JK		JP 2000-295686	10-20-2000	Yamaha Corp		✓
JK		JP 2000-295697	10-20-2000	Yamaha Corp		✓
JK		JP 2001-069591	03-16-2001	Yamaha Corp		✓
JK		JP 2001-095082	04-06-2001	Yamaha Corp		✓
JK		WO 98-58522	12-23-1998	British Telecommunication		✓
JK		WO 99-35881	07-15-1999	Sony Corporation		✓

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Signature**

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		Application Number	10/089,025
		Filing Date	June 21, 2002
		First Named Inventor	Hooley
		Art Unit	2837
		Examiner Name	NAPPI, R.
Sheet 1 of 1	Attorney Docket	ONE1.002 (was O17-002)	

FOREIGN PATENT DOCUMENTS				
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<div>RECEIVED</div> <div>NOV 19 2003</div>				
JK	A	JP 59-179743	03/1986	Matsushita Electric Ind Co. Technology Center
JK	B	JP-61-152498	01/1988	Matsushita Electric Ind Co
JK	C	JP-62-068410	09/1988	Matsushita Electric Ind Co
JK	D	JP-62-103315	11/1988	Pioneer Electronic Corp
JK	E	JP-62-133476	12/1988	Pioneer Electronic Corp
JK	F	JP-01-061601	09/1980	Toa Electric Co Ltd
JK	G	JP-01-298457	07/1991	Mitsubishi Heavy Ind Ltd
JK	H	JP-01-297716	07/1991	Nippon Hoso Kyokai
JK	I	JP-02-249432	04/1992	Matsushita Electric Ind Co
JK	J	JP-03-004842	11/1992	Mitsubishi Electric Corp
JK	K	JP-03-197864	02/1993	Pioneer Electron Corp
JK	L	JP-03-252315	04/1993	Nippon Hoso Kyokai
JK	M	JP-04-008975	08/1993	Matsushita Electric Ind Co
JK	N	JP-04-153224	12/1993	Matsushita Electric Ind Co
JK	O	JP-04-214144	03/1994	Pioneer Electron Corp
JK	P	JP-05-001321	07/1994	Pioneer Electron Corp
JK	Q	JP-05-010123	08/1994	Matsushita Electric Ind Co
JK	R	JP-05-301465	06/1995	Nippon Hoso Kyoka
JK	S	JP-05-349872	08/1995	Matsushita Electric Ind Co

Examiner Signature		Date Considered	11/31/06
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# Information Disclosure Statement by Applicant

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Filing Date	June 21, 2002
First Named Inventor	Hooley
Art Unit	2837
Examiner Name	NAPPI, R.
Attorney Docket No.	ONE1.002 (was O17-002)

Sheet

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of

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO.	PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE (if appropriate)
JK	A	4	3	0	5	2	9	6		12/1981	Green et al	73	626	
JK	B	4	3	8	8	4	9	3		06/1983	Maisel	179	1 GD	
JK	C	4	4	7	2	8	3	4		09/1984	Yamamuro et al	381	61	
JK	D	4	6	5	3	5	0	5		03/1987	Iinuma	128	660	
JK	E	4	9	7	2	3	8	1		11/1990	Mitchell et al	367	13	
JK	F	4	9	8	0	8	7	1		12/1990	Sieber et al	367	127	
JK	G	5	4	3	8	6	2	4		08/1995	Lewiner et al	381	71	
JK	H	5	5	1	7	2	0	0		05/1996	McAdam et al	342	360	
JK	I	5	7	6	3	7	8	5		06/1998	Chiang	73	609	
JK	J	5	8	4	1	3	9	4		11/1998	Sterns et al	342	174	
JK	K	5	8	6	7	1	2	3		02/1999	Geyh et al	3432	372	
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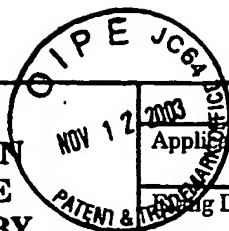
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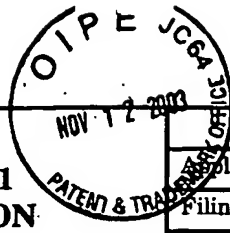
Technology Center 2600

## FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation	
							YES	NO
JK	A	0 492 015	07/1992	EPO	G05D	1/02	X	
JK	B	0 642 032	03/1995	EPO	G01S	3/803	X	
JK	C	1 571 714	07/1980	GB	H04R	5/00	X	
JK	D	2 243 040	10/1991	GB	G01S	13/86	X	
JK	E	2 259 364	03/1993	GB	G01S	5/18	X	
JK	F	2 259 426	03/1993	GB	H04R	1/40	X	
JK	G	2 273 848	06/1994	GB	H04R	1/40	X	
JK	H	2 290 380	12/1995	GB	G01S	5/20	X	
JK	I	2 277 152	10/1994	GB	G01S	15/42	X	
JK	J	2 326 559	12/1998	GB	G10K	11/178	X	
JK	K	2 332 052	06/1999	GB	G01S	5/00	X	
JK	L	2 340 351	2/2000	GB	H04B	1/66	X	
JK	M	2 345 967	07/2000	GB	G01S	5/20	X	
JK	N	96/14723	05/1996	WO	H04R	1/40	X	
JK	O	97/32449	09/1997	WO	H04R	1/40	X	
JK	P	99/00780	01/1999	WO	G08C	21/00	X	
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<b>Substitute for form 1449/PTO</b>  <b>37 CFR 1.501</b> <b>INFORMATION</b> <b>DISCLOSURE</b> <b>CITATION IN A PATENT</b>  (Use as many sheets as necessary)  Sheet 1 of 3	<b>Complete if Known</b>	
	Application Number	10/089,025
	Filing Date	June 21, 2002
	First Named Inventor	Hooley
	Art Unit	2837
	Examiner Name	NAPPI, R.
Attorney Docket No.		ONE1.002

U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	CITE NO.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUB CLASS
JK	A	5	8	3	4	6	4	7	10/1998	GAUDERIOT et al	73	570
JK	B	4	1	9	0	7	3	9	02/1980	TORFFIELD	179	1
JK	C	5	1	6	6	9	0	5	11/1992	CURRIE	367	19
JK	D	5	8	5	9	9	1	5	01/1999	NORRIS	381	75
JK	E	5	7	4	5	4	3	5	04/1998	FAGE et al	367	13
JK	F	5	1	3	1	0	5	1	07/1992	KISHINAGA et al	381	82
JK	G	6	0	8	4	9	7	4	07/2000	NIIMI	381	104
	H											
	I											
	J											
	K											
	L											
	M											
	N											
	O											
	P											
	Q											
	R											

Examiner Signature		Date Considered	11/31/06
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# **INFORMATION DISCLOSURE CITATION LISTING**

(Use as many sheets as necessary)

**Complete if Known**

Application Number 10/089,025

Filing Date June 21, 2002

First Named Inventor Hooley

Art Unit 2837

Examiner Name

Attorney Docket No. ONE1.002

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NOV 19 2003

Sheet 2 of 3

Technology Center 2600

**FOREIGN PATENT DOCUMENTS**

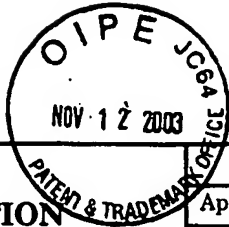
Examiner's Initials	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation	
						YES	NO
JK	0412770 (Abstract)	04/1992	Japan	H04S	5/02	X	
JK	02013097 (Abstract)	01/1990	Japan	H04R	3/12	X	
JK	31 42 462	05/1992	Germany	H04R	1/20		X
JK	0 025 118	03/1982	EPO	H04R	5/02	X	X
JK	2 116 929	07/1998	Spain	H04S	7/00		X
JK	96 31086	03/1996	WIPO	H04R	5/04	X	
JK	11030525 (Abstract)	02/1999	Japan	G01C	21/00	X	
JK	11027604 (Abstract)	01/1999	Japan	H04N	5/60	X	
JK	06178379 (Abstract)	06/1994	Japan	H04R	1/34	X	
JK	06318087 (Abstract)	11/1994	Japan	G10K	15/00	X	
JK	0 591 899	04/1994	EPO	H05B	37/02	X	
JK	1 603 201	11/1981	GB	H04R	3/08	X	
JK	05199583	08/1993	Japan	H04R	1/34	X	
JK	SU 1 678 327 (Abstract)	09/1991		A61B	8/00	X	
JK	62076958 (Abstract)	04/1987	Japan	H04M	9/00	X	
JK	63014588	01/1988	Japan	H04N	7/14	X	

Examiner  
Signature

Date  
Considered

1/31/06

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Complete if Known

**INFORMATION  
DISCLOSURE  
CITATION LISTING**  
(Use as many sheets as necessary)

Application Number	10/089,025
Filing Date	June 21, 2002
First Named Inventor	Hooley
Art Unit	2837 Technology Center 2600
Examiner Name	NAPPI, R.

Sheet	3	Of	3	Attorney Docket Number	ONE1.002
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**OTHER NON-PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published	
JK	A	KOMIYAMA, Setsu; "Distance Control of Sound Images for 3D TV"; NHK Laboratories Note, (1992) August; page(s) 1-11; Vol. 406; NHK Technical Research Laboratories; Tokyo.	
JK	B	"Waveform Inversion for Individual Ambient Sound Control"; IBM Technical Disclosure Bulletin; (1993) September; page(s) 537-540; Vol. 36; no. 9A; IBM Corporation; New York.	

Examiner Signature		Date Considered	1/31/06
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# Electronic Information Disclosure Statement

#9  
J.D.  
10-19-02

## Method and apparatus to direct sound

Application:



10/089025

Confirmation:

9464

Applicant(s):

Anthony Hooley

Docket Number:

O17-002

Group Art Unit:

Examiner:

search string:

( 5233664 or 5953432 ).pn.

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## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
JK	P01	5233664	1999-08-03		Yanagawa et al	381	89
JK	P02	5953432	1999-09-14		Yanagawa et al	381	335


## Remarks

(Remarks are not for responding to an office action.)

Inclusion of a reference in this Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such, nor that any cited reference discloses anything other than what is shown and stated therein. In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. In accordance with 37 CFR § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as

defined in § 1.56(b). This statement is made by the attorney whose electronic signature is appended hereto, on the basis of the information supplied by the inventors and the information in the attorney's file.

### Signature

Examiner Name	Date
	1/31/06